

### **Abstract**

A camera system that measures golf club and golf ball kinematics is disclosed.

Preferably, a plurality of retroreflective markers are placed on a golf club and a plurality of  
5 fluorescent markers are placed on a golf ball. Using two separate strobe lamps, images of a golf  
club and golf ball are acquired. The output of each of the strobe lamps is preferably filtered to  
pass predetermined colors of light. The input to each of the cameras is also preferably filtered.  
Based on the filtered light outputs generated by each light source and the filtered camera inputs,  
at least two images of the golf club and the golf ball in motion may be acquired. The acquired  
10 images may be used to analyze the kinematics of the golf ball and golf club.